

MARCH
16 & 17
2017



Les Jardins du Pharo, Marseille, France

ANNUAL MEETING
OF THE FRENCH SOCIETY
FOR ECM BIOLOGY
ECM IN HEALTH AND DISEASE



**ORGANIZING
SCIENTIFIC
COMMITTEE**

Frédéric ANDRÉ, CRO2, Inserm UMR 911, Marseille
Véronique RIGOT, CRO2, Inserm UMR 911, Marseille
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FINAL PROGRAM

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THURSDAY MARCH 16TH 2017

08:30 Welcome participants

09:00 Inaugural speeches

09:30 Plenary lecture

Valerie WEAVER (UCSF, San Francisco, USA)

10:30 Coffee break - Posters

11:00 SESSION I Mechanotransduction

11:00 Mesenchymal stem cells have a stiffness-responsive extracellular matrix proteome but mechanosensitivity is modulated in senescence
Joe SWIFT (Wellcome Trust Centre for Cell Matrix Research, Manchester, United Kingdom)

SELECTED TALKS

11:45 Regulation of mechanotransduction and vascular morphogenesis through scaffolding of endothelial extracellular matrix
Marion MARCHAND (Collège de France, Paris, France)

12:00 Clathrin-coated plaques are mechanosensors of the cell that support proliferation on stiff environments
Francesco BASCHIERI (Inserm U1170, Villejuif, France)

12:15 LINC complex-Lis1 interplay controls MT1-MMP matrix digest-on-demand response for confined tumor cell migration
Robin FERRARI (Institut Curie, Paris, France)

12:30 Posters session & lunch

14:00 SESSION II (École des Mines de Saint-Étienne) Engineered materials and emerging technologies

14:00 Delivering growth factors to cells via biomaterials reveals so far hidden phenomena
Catherine PICART (LMGP, Grenoble, France)

SELECTED TALKS

14:45 Using single-cell acoustic force spectroscopy (AFS) to measure CD4+ T lymphocyte adhesion strength and kinetics to fibronectin
Thierry ROSE (Institut Pasteur, Paris, France)

15:00 Role of collagen type IV in a cell intercalation process
Véronique VAN DE BOR (CNRS iBV, Nice, France)

15:15 Coffee break - Posters

15:45 SESSION III Tissue homeostasis and dysregulation

15:45 Syndecan-1 in epidermal biology
Patricia ROUSSELLE (IBCP, Lyon, France)

SELECTED TALKS

16:30 Adamtsl2 regulates chondrogenesis by controlling the structure of microfibrillar network
Laure DELHON (Inserm UMR1163, Paris, France)

16:45 Syndecan-1 drives MMP-9 expression during keratinocyte migration within epithelial podosome-like structures
Marine MONTMASSON (CNRS UMR5305 IBCP, Lyon, France)

17:00 Deletion of laminin-binding integrins in the luminal and basal cell compartments perturbs mammary gland development
Mathilde ROMAGNOLI (UMR144/CNRS, Institut Curie, Paris, France)

17:15 Podosomes are organelles for breaching the basement membrane
Elisabeth GÉNOT (Inserm 1045, Bordeaux, France)

17:30 General Assembly

20:00 Gala dinner at UNM

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FRIDAY MARCH 17TH 2017

09:00 SESSION IV Cancer

09:00 Role of tenascin-C in tumor angiogenesis
Gertraud OREND (Inserm U1109, Strasbourg, France)

SELECTED TALKS

- 09:45 Cadherin-1 and cadherin-3 differentially regulate pancreatic cancer cell invasion through type I collagen
Aurélien DOBRIC (CRO2, Marseille, France)
- 10:00 Elastin-derived peptides stimulate tumour cell blebbing and microvesicle shedding through ribosomal protein SA/Laminin receptor-1
Bertrand BRASSART (UMR CNRS/URCA N°7369 MEDyC, Reims, France)
- 10:15 Impact of the P-cadherin/SFK mechanotransduction signaling in triple-negative breast cancer cell invasive behavior
Ana Sofia RIBEIRO (I3S/IPATIMUP, Porto, Portugal)

10:30 Coffee break - Posters

11:00 Recognition of distinguished SFBMEc members

- 11:00 Matrikines as key regulators in ECM physiopathology
François-Xavier MAQUART (MEDyC, Reims, France)
- 11:30 Alterations of elastic fibres in genetic diseases: physiopathological mechanisms and potential therapies
Marie-Paule JACOB (Inserm 1148, Paris, France)
- 12:00 Laminins: overview and outlook
Monique AUMAILLEY (University of Cologne, Germany)

12:30 Posters session & lunch

14:00 SESSION V Characterizing the matrix

14:00 Recent insights on the coupling between extracellular matrix breakdown and regeneration during menstruation, and relevance to the pathogenesis of endometriosis
Patrick HENRIET (UCL, Louvain, Belgium)

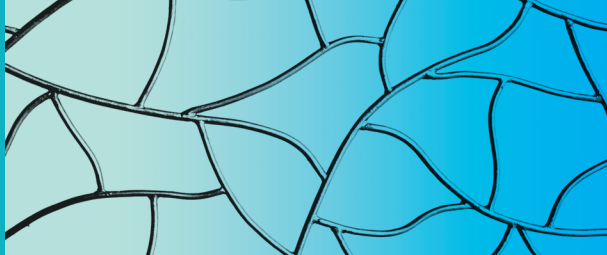
SELECTED TALKS

- 14:45 Collagen XIV as a new regulator of basement membrane biomechanics during zebrafish caudal fin regeneration
Pauline NAUROY (ENS de Lyon, Institut de Génomique Fonctionnelle de Lyon, France)
- 15:00 New insight into epigenetic regulation of MMP-1
Laurie VERZEAUX (SILAB, Brive-la-Gaillarde, France)
- 15:15 Collagen XVIII, a key interfacial component of the skin architecture
Valérie ANDRE-FREI (BASF Beauty Care Solutions, Lyon, France)

15:30 Plenary lecture

Mechanobiology of extracellular matrix fibers
Viola VOGEL (ETH, Zurich, Switzerland)

16:15 Awards ceremony and closing remarks



GENERAL INFORMATION

CONGRESS VENUE

LES JARDINS DU PHARO, AMPHITHEATER GASTAUT

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